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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/691,846	10/691,846 10/23/2003		Donald K. Jones	CRD5035CIP1	6702
27777	7590	02/23/2006		EXAMINER	
PHILIP S. J		- ·	WEBB, SARAH K		
JOHNSON & ONE JOHNS		ON OHNSON PLAZA	ART UNIT	PAPER NUMBER	
NEW BRUNSWICK, NJ 08933-7003				3731	

DATE MAILED: 02/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Commence	10/691,846	JONES ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sarah K. Webb	3731				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the co	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>07 D</u>	<u>ecember 2005</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowa	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date S. Patent and Trademark Office	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

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Drawings

1. The drawings were received on 12/7/05. These drawings are acceptable.

Response to Arguments

- 2. Applicant's arguments, see pages 4 and 5, filed 12/7/05, with respect to the 112 rejections, have been fully considered and are persuasive. The 112 rejections of the claims has been withdrawn.
- 3. Applicant's arguments, see pages 5-6, filed 12/7/05, with respect to the 103 rejections, have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Ravenscroft.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,702,418 to Ravenscroft in view of U.S. Patent No. 6,607,539 to Hayashi et al.

Ravenscroft discloses a stent delivery catheter that includes an elongate core member with proximal and distal cylindrical members (23) on the core (17). As shown Art Unit: 3731

more clearly in Figures 2,3, and 6, Ravenscroft explains that the cylindrical members (23) define a gap within which anchor members (20B) on a stent (20) are interlocked (column 6, lines 1-21). This configuration allows the stent to be pulled back into the outer sheath (24) after partial deployment (column 4, lines 30-36). Ravenscroft explains that the sheath (24) keeps the self-expanding stent (20) compressed onto the core so that the anchors are interlocked with the cylinders (23) (see column 6), and fails to include actuatable retaining rings.

Hayashi discloses another self-expanding stent delivery system in Figures 4, 5A, 5B that includes a self-expanding prosthesis (15) compressed onto an elongated core (20) member. Hayashi teaches that actuatable retaining rings (127) disposed around the prosthesis (15) can be used to retain the prosthesis in a compressed configuration on the core, as this system can be configured to release the rings in any desired order. Hayashi also teaches that the system of actuatable retaining rings can be easily ncorporated into existing stent delivery systems that utilize a sheath and/or mechanical release (column 2, lines 1-7). The retaining rings are positioned at the anchor members (130) for retaining the stent on the core member. In lines 45-53 of column 3. Hayashi explains that the retaining rings (127) are severed by heat supplied by the resistive heating elements (129,130) to allow the self-expanding prosthesis (15) to expand. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include actuatable retaining rings in the Ravenscroft delivery device, as Hayashi teaches that the actuatable rings can be incorporated into existing delivery systems to increase the level of control over release of a vascular prosthesis.

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5. Claims 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ravenscroft in view of Hayashi, as applied to claim 5 above, and further in view of US Patent No. 6,277,126 to Barry et al.

Ravenscroft, as modified by Hayashi above, includes all the limitations of claims 6-8 except for the retaining ring being a hot melt polymer filament. Hayashi does state that the retaining rings should be made from suture material (column 4, line 26), which includes many types of polymer filaments. Barry discloses another type of delivery system, in which an electric current is supplied to a resistive heating element. The heat is used to sever a coupling, thereby releasing a vascular implant. Here, Barry teaches that the coupling material can be a hot melt adhesive (which is inherently a polymer), because this type of material softens and yields when exposed to heat. (See column 4, lines 29 – 40.) It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the retaining filaments of Hayashi from a hot melt polymeric material, as taught by Barry, as this material is suitable for forming retaining elements that yield with the application of heat in a vascular implant delivery system.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sarah K. Webb whose telephone number is (571) 272-4706. The examiner can normally be reached on Mon-Fri 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anhtuan T. Nguyen can be reached on (571) 272-4963. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

2/16/06 Juhan M-Moo

JULIAN W. WOO
PRIMARY EXAMINER